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DERWENT-WEEK: 198247

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TITLE: UV-curable adhesive tape comprises UV-curable  
resin, e.g. epoxy! resin, polyvinyl formaldehyde! resin and  
glass fibres

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PATENT-FAMILY:

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APPLICATION-DATA:

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INT-CL-CURRENT:

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ABSTRACTED-PUB-NO: JP 57167373 A

BASIC-ABSTRACT:

Adhesive tape comprises (A) UV-curable resin (100 pts.wt.), (B) polyvinyl formal resin (10-40 pts.wt.) and (C) glass fibre. The adhesive tape is rapidly curable by irradiation and saves labour and energy.

(A) is typically epoxy resin prep'd. from epichlorohydrin and bisphenol A, hydrogenated bisphenol A, bisphenol F or novolak resin, epoxy resin derived

from glycidyl or methyl glycidyl ether, -ester or -amine; aliphatic or alicyclic epoxy resin or epoxy resin contg. intramolecular epoxy gp. (B) typically has a mol. wt. of 10,000-50,000 and is typically Vinirex (available from CHCC). The adhesive tape is prep'd. by mixing epoxy resin, vinyl ester and polyvinyl formal, blending the mixt. opt. with photosensitiser and solvent and coating or impregnating the adhesive compsn. into glass fibre cloth or orientated glass fibre bundles using a roller or brush, followed by drying.

In an example, Epikote 828 blended with vinyl methacrylate ester (100 pts.) was blended with Vinirex (10 pts.), benzoisobutyl ether (1 pt.) and added with toluene/methyl ethyl ketone/methanol (70/20/10) to a viscosity of up to 1000 cps. The orientated glass yarns were coated with the dope and heated at 100 deg.C for 5 mins. and dried to provide an adhesive tape.